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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/661,214	09/12/2003	Danny L. Hopkins	170.304	7183
28785	7590	11/20/2006	EXAMINER DUONG, THANH P	
JOHN R LEY, LLC 5299 DTC BLVD, SUITE 610 GREENWOOD VILLAGE, CO 80111			ART UNIT 1764	

DATE MAILED: 11/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/661,214

Applicant(s)

HOPKINS, DANNY L.

Examiner

Tom P. Duong

Art Unit

1764

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 September 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3, 5, 6 and 8-40 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 23-38 and 40 is/are allowed.
- 6) ☒ Claim(s) 1-3, 5, 6, 8-12, 19-22 and 39 is/are rejected.
- 7) ☒ Claim(s) 13-18 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Applicant's remarks and amendments filed on September 18, 2006 have been carefully considered. Claims 1, 2, 5, 6, 8-10, 12, 13, 17, 20, and 22 have been amended. New claims 23-40 have been added. Claims 1-3, 5, 6, and 8-40 are pending in this application.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1-3, 5-6, 8-12, 19-22, and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohle (3,802,158) in view of Diachuk (4,350,504). Regarding claims 1, 3, 7, and 22, Ohle discloses a system for drawn air including gaseous contaminants, comprising: a collector device (26) in a confined environment to receive exhaust flow (28); a cleaner device (12, 14, 20, 22) comprising: a scrubber module (12), a liquid removal module (14), and a filtering device (22) comprises either activated charcoal or potassium permanganate (Col. 4, lines 40-46); a delivery device (84) receives flow from cleaner device. Ohle discloses odor-removing filter (activated carbon) or a catalyst (potassium permanganate) but is silent with respect a filtering and conversion module comprising both an odor-removing filter and a catalyst. Diachuk

'504 teaches a filtering device (108) comprising filter unit 109 comprising oxidizer medium 113 (potassium permanganate) downstream of the charcoal bed 112 (odor-removing filter) to neutralize the odor and the contaminants (Col. 5, lines 15-30). Thus, it would have been obvious in view of Diachuk '540 to one having ordinary skill in the art to modify the device of Ohle with a filtering and conversion module as taught by Diachuk '540 in order to facilitate in neutralizing the odor and contaminants. With respect to circulating the treated gas back to the confined environment, Diachuk '540 discloses the treated gas can be discharged back into the environment surrounding the cooking equipment (Col. 6, lines 20-24). With respect to the catalyst operating at room temperature to facilitate conversion of the carbon monoxide gaseous contaminants, both Ohle '158 and Diachuk '540 discloses the pollution control apparatus are utilized in a restaurant environment or installed with cooking environment and such environment are usually operating at room temperature. Moreover, the recitation with respect to operating the catalyst at room temperature is directed to the manner of operating the device and the manner of operating a device does not differentiate apparatus claim from the prior art if the prior art apparatus teaches all structural limitations of the claim. See *Ex parte Masham*. MPEP 2114. With respect to the catalyst capable of converting carbon monoxide to carbon dioxide, it submitted that Ohle discloses the catalyst of the claimed invention; therefore, one of ordinary skilled in the art would have expected the catalyst of Ohle is capable of converting carbon monoxide to carbon dioxide. Regarding claim 2, Ohle discloses the confined environment of the claimed invention (Col. 1, lines 10-19 and Col. 2 lines 36-42). Regarding claims 4-5 and 8, Ohle discloses structural

features of the claimed invention; therefore, the apparatus of Ohle is capable of converting carbon monoxide to carbon dioxide. Regarding claim 6, the applied references are silent with respect to the use of manganese copper oxide; however, it would have been an obvious design choice to one having ordinary skill in the art to substitute a known manganese copper oxide in lieu potassium permanganate to facilitate in oxidizing and purifying the exhaust gas, since both manganese copper oxide and potassium permanganate are oxidizing medium. Regarding claims 9-11 and 39, it is conventional to provide a heater such as a electrical heater embedded in the catalyst layer and it would have been obvious to do so here to activate oxidizing medium to facilitate the oxidizing process. Regarding claim 12, Ohle fails to disclose a filter comprising one of a HEPA, DOP, or Bag filter. Diachuk teaches it is desirable to provide a high efficiency filter, such as a HEPA filter, to enhance the efficiency of treating the exhaust gas (Col. 5, lines 54-68 – Col. 6, lines 1-8). Regarding claims 19-21, Ohle discloses (best understood by examiner) the liquid removing device (14) including a baffles (64) which has curved sidewall capable intermixing the gas the liquid and remove the mist from the gas flow (Fig. 3).

Allowable Subject Matter

Claims 23-38 and 40 are allowed.

Claims 13-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments filed September 18, 2006 have been fully considered but they are not persuasive. Applicant argued neither Diachuk nor Ohle describes or suggests a room temperature catalyst which facilitates conversion of carbon monoxide gas to carbon dioxide, Examiner respectfully disagrees. It submitted that Ohle discloses the catalyst of the claimed invention; therefore, one of ordinary skilled in the art would have expected the catalyst of Ohle is capable of converting carbon monoxide to carbon dioxide. With respect to the catalyst operating at room temperature to facilitate conversion of the carbon monoxide gaseous contaminants, both Ohle '158 and Diachuk '540 discloses the pollution control apparatus are utilized in a restaurant environment or installed with cooking environment and such environment are usually operating at room temperature. Moreover, the recitation with respect to operating the catalyst at room temperature is directed to the manner of operating the device and the manner of operating a device does not differentiate apparatus claim from the prior art if the prior art apparatus teaches all structural limitations of the claim. See *Ex parte Masham*. MPEP 2114.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tom P. Duong whose telephone number is (571) 272-2794. The examiner can normally be reached on 8:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on (571) 272-1444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tom Duong
November 16, 2006

TD



Glenn Caldarola
Supervisory Patent Examiner
Technology Center 1700